

SIMULTANEOUS RECORDING AND REPRODUCTION APPARATUS AND SIMULTANEOUS MULTI-CHANNEL REPRODUCTION APPARATUS

This application is a divisional application of Serial Number 09/413,326 filed on October 6, 1999.

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

[0001] The present invention relates to simultaneous recording and reproduction apparatus wherein audiovisual signals are reproduced from a recording medium while they are recorded thereto.

DESCRIPTION OF PRIOR ART

[0002] Video cassette recorders (VCR) are very popular in homes. A main use of home VCRs is reserve recording, and recording and reproduction of audiovisual signals are performed in the concept of time-shift.

[0003] However, when so-called timer recording is set in a home VCR, the contents of recording cannot be viewed, for example, before a time when the timer recording is completed. That is, the contents of recording cannot be viewed until the recording is completed. In order solve this problem, it is proposed in Japanese Patent laid open Publication 6-14288/1994 that the contents under recording can be viewed freely from the start before the reserve recording is completed. In this reproduction-while-recording, the contents from the start to a recording position can be viewed freely during the recording, and it is called as reproduction-while-recording.

[0004] On the other hand, for a DVD-RAM or the like, zone constant linear velocity control (ZCLV) is adopted. In ZCLV, a recording medium is divided in a plurality of areas (zones) in the radial direction, and constant angular velocity recording is performed in a

See Sub Spec Filed 9.22.04

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